JC10 Rec'd PCT/PTO 03 JUNE 2005, 2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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ATTTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 30794.94USWO

DESIGNATED/ELECTED OFFICE (DO/EO/US) NCERNING A SURMISSION LINDER 35 H.S.C.

U.S.APPACATON TO. If TOO BE 37 CFR 1.5)

CONCERNING A SUBMISSION UNDER 33 U.S.C. 371									
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED 15 JULY 2003 PRIORITY DATE CLAIMED 16 DEC 2002; 16 DEC 2002									
	TITLE OF INVENTION GROWTH OF PLANAR, NON-POLAR A-PLANE GALLIUM NITRIDE BY HYDRIDE VAPOR PHASE EPITAXY								
APPLICANT(S) FOR DO/EO/US Benjamin A. Haskell, Paul T. Fini, Shigemasa Matsuda,									
Michael D. Craven, Steven P. DenBaars, James S. Speck and Shuji Nakamura Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:									
NOTE:									
	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.								
IQ. QI	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.								
	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4. XX	The US has been elected (Article 31).								
5. XX	A copy of the International Application as filed (35 U.S.C. 371(c)(2))								
	a. is attached hereto (required only if not communicated by the International Bureau).								
	b. has been communicated by the International Bureau.								
	c. XX is not required, as the applic	cation was filed in the U	nited States Receivi	ing Office (RO/US).					
6.	An English language translation of the	e International Application	on as filed (35 U.S.C	C. 371(c)(2)).					
	a. is attached hereto.								
_	b. has been previously submit	ted under 35 U.S.C. 15	4(d)(4).						
7. XX	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))								
	a. are attached hereto (required only if not communicated by the International Bureau).								
	b. have been communicated by the International Bureau.								
	c. have not been made; however, the time limit for making such amendments has NOT expired.								
	d. XX have not been made and v	will not be made.							
8.	An English language translation of th	e amendments to the c	laims under PCT Ar	ticle 19 (35 U.S.C. 371(c)(3)).					
9. 🖾	An oath or declaration of the inventor	(s) (35 U.S.C. 371(c)(4)).						
10.	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the Interna	ational Preliminary E	examination Report under PCT					
Items	11 to 20 below concern document(s) or information includ	led:						
11.	An Information Disclosure Statement	under 37 CFR 1.97 and	I 1.98.						
12. 🗌	An assignment document for recording	ng. A separate cover she	eet in compliance wi	ith 37 CFR 3.28 and 3.31 is included.					
13.	A preliminary amendment.			. 19					
14.	An Application Data Sheet under 37 (CFR 1.76.							
15.	A substitute specification.								
16.	A power of attorney and/or change of	address letter.							
17. 🔲	A computer-readable form of the seq	uence listing in accorda	nce with PCT Rule	13ter.2 and 37 CFR 1.821- 1.825.					
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).								
19. 🗆	A second copy of the English language	ge translation of the inte	mational application	n under 35 U.S.C. 154(d)(4).					
20.	Other items or information:								

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. Patent and Trademark Office; 5-51 DELARIMINT OF COMMERCE

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U.S. APPLICAT	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER						
10/5	0/53/385 PCT/US03/21916			6	30794.94USWO					
1	owing fees have b				CAI \$	LCULATIONS	PTO USE ONLY			
21. XX Basic	21. XX Basic national fee\$300					300.00				
22. XX Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)						100.00				
Search fee (37 C Internation International Sea	nal Searching Au rch Report prepai	thorityred and provided to	e international application to	\$100 \$400	\$	100.00				
TOTAL OF 21, 22 and 23 = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						•				
Total Sheets	otal Sheets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole number)			RATE						
- 100 =	/50 =			× \$250	\$					
	Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).									
CLAIMS	NUME	BER FILED	NUMBER EXTRA	RATE	\$					
Total claims]	7 - 20 =	-0-	x \$ 50	\$	-0-				
Independent clair	ns	1 -3=	-0-	x \$200	\$	-0-				
MULTIPLE DEPE	NDENT CLAIM(S) (if applicable)		+ \$360	\$					
		,	TOTAL OF ABOVE	CALCULATIONS =	\$	500.00				
Applicant cla	Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.									
SUBTOTAL =						500.00				
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					\$					
TOTAL NATIONAL FEE =						500.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +										
TOTAL FEES ENCLOSED =						500.00				
						ount to be nded:	\$			
						ount to be rged:	\$			
a. A checi	k in the amount o	f \$	to cover the abo	ove fees is enclosed.						
b.XXX Please charge my Deposit Account No. 50-0494 in the amount of \$ 500.00 to cover the above fees. A duplicate copy of this sheet is enclosed.										
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit t Account No. 50-0494. A duplicate copy of this sheet is enclosed.										
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.										
			FR 1.495 has not been me on to pending status.	t, a petition to revive	(37 C	FR 1.137(a) or (b)) must be filed			
	SEND ALL CORRESPONDENCE TO:						1/3			
CATTER & COOPER LLD										
Howard Hughes Center George H. NAME						tes				
6701 Center Drive West, Suite 1050 33,500										
Los Angeles, CA 90045 REGISTRATI						JMBER				

Applicant(s):

Benjamin A. Haskell, Paul T. Fini, Shigemasa Matsuda, Michael D. Craven, Steven P. 1995 Speck and Shuii Nakamunac'd PCT/PTO 03 JUN 2005

Docket:

30794.94USWO

Title:

GROWTH OF PLANAR, NON-POLAR A-PLANE GALLIUM NITRIDE BY

HYDRIDE VAPOR PHASE EPITAXY

CERTIFICATE OF MAILING UNDER 37 CFR 1.10

'Express Mail' mailing label number: EV 329956405 US

Date of Deposit: June 3, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MAIL STOP PCT Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Adjustment Date: 09/16/2005 WALVARAD 06/09/2005 LLANDGRA 00000015 500494 02 FC:2632 250.00 CR 10537385

100.00 CR

We are transmitting herewith the attached:

Transmittal sheet, in duplicate, containing Certificate Of Mailing Under 37 CFR 1.10.

Form PTO-1390: TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371.

The fee has been calculated as shown below in the "Claims as Filed" table.

Copy of signed Declaration of Inventorship, as filed in the International Application – 2 pages.

A charge to Deposit Account in the amount of \$500.00 to cover the Total National Fee

Return postcard.

TOTAL NATIONAL FEE

CLAIMS AS FILED

Number of Claims Filed	In Excess of:		Number Extra		Rate		Fee
Basic Filing Fee (Basic national fee + Examination fee + Search fee)							\$500.00
Application Size Fee							0.00
Total Claims			09/16/2005	ALVARA	00000004 5	1057	10537385 7385
17	20	=	Sale Reta 00	1000000B	150 FES 8400	100	\$0.00
Independent Claims			02 FC:2643		50.00 DA		
1	3	=	0	х	\$200.00		\$0.00
MULTIPLE DEPENDENT CLAIM FEE							

Please charge all fees to Deposit Account No. 50-0494. A duplicate of this sheet is enclosed.

Customer Number 22462

GATES & COOPER LLP

Howard Hughes Center 6701 Center Drive West, Suite 1050 Los Angeles, CA 90045 (310) 641-8797

Name: George H. Gates Reg. No.: 33,500 Initials: GHG/dr

SD

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